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Product information

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Servers

Previously released product information for IBM server products.

iSeries and AS/400 Information on iSeries servers and the AS/400 operating system	<u>iSeries and AS/400</u>
eServer Information on eServer servers software and hardware	<u>BladeCenter</u> <u>eServer software and hardware information</u> <u>eServer Cluster 1350 and 1300 information</u>
IntelliStation Links to look up IntelliStation publications	<u>IntelliStation</u>
pSeries and AIX Information on pSeries servers and the AIX operating system	<u>AIX library</u>
xSeries Information on xSeries servers	<u>xSeries</u> <u>xSeries 430 and NUMA-Q</u>
zSeries Information on zSeries servers and operating systems	<u>OS/390 Library</u> <u>z/OS Library</u>

Software

Previously released information for IBM software products.

Application Servers Information for previous WebSphere Application Server versions	Version 4.0.x WebSphere Application Server Version 5.0 WebSphere Application Server Version 5.1.x WebSphere Application Server WebSphere Application Server for iSeries Version 5.1 WebSphere Extended Deployment
Collaboration and Portals Information for collaboration software	Lotus Documentation Version 5.0 WebSphere Portal
Commerce Information for commerce-related software products	Version 5.5 WebSphere Commerce Suite Version 5.6 WebSphere Commerce Suite
Data and Information Management Information for data and information management products	Version 10.0 Cloudscape Version 8.3 DB2 Alphablox DB2 Content Management Library Version 8.2 DB2 Everyplace Version 7 DB2 Universal Database for Linux, UNIX, and Windows Version 7.1 DB2 OnDemand for Multiplatforms DB2 for z/OS and OS/390 Library DB2 IM Technical Library DB2 QMF Library DB2 and IMS Tools Library IMS Library Informix Library

Host Transaction Processing Software products for managing high volume transactions	Version 6.0 CICS Transaction Gateway for z/OS Version 2.2 CICS Transaction Server for z/OS Version 2.3 CICS Transaction Server for z/OS Version 5.x TXSeries for Multiplatforms
Networking Information for networking, communications, and host access and application software	Version 8 Host On-Demand Version 5 WebSphere Host Access Transformation Services
Software development Information on software development tools design, construction, and deployment	AIX Compilers (multiple versions) Version 7 C/C++ and Version 9 Fortran Compilers for Linux (on pSeries) Version 5.0.1 WebSphere Studio Application Developer Version 5.1 WebSphere Studio Application Developer Version 5.1.1 WebSphere Studio Application Developer Version 5.1.2 WebSphere Studio Application Developer Version 5.1 WebSphere Studio Application Developer Integration Edition
Storage management Information for software to manage the accessibility, availability, and performance of stored information	Tivoli Software Family Library TotalStorage Multiple Device Manager
Systems management Information for software to monitor, control, and optimize computing resources	Tivoli Software Family Library
Wireless - Voice -	Version 5.0 WebSphere

| **Pervasive**
Wireless, pervasive, and
voice software | <u>Everyplace Access</u>

<u>Version 5.0.1 WebSphere</u>
<u>Everyplace Mobile Portal</u>

<u>Version 1.0.2 WebSphere RFID</u>
<u>Solution</u> |

Storage systems

Previously released information for IBM storage hardware and
virtualization products and solutions.

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Storage solutions such
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<u>Tape storage systems</u>

<u>TotalStorage Multiple Device</u>
<u>Manager</u>

<u>TotalStorage Virtualization</u> |

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1. **Redbook - Evaluating "EXPLORE for VSE" In a VM/VSE Environment**   1994-09-16
    This document evaluates the usage of EXPLORE for VSE and EXPLORE for
    CICS in a VM/VSE environment. Its main purpose is to explain which values
    provided by EXPLORE for VSE are usable if VSE/ESA is running under
    VM/ESA and not native on the hardware. VMPRF was used to look at the
    VSE/ESA virtual machine from the VM/ESA side and to compare EXPLORE
    for VSE and related VMPRF values if applicable. In addition it provides
    information about the installation of EXPLORE for VSE and EXPLORE for
    CICS in a VM/VSE environment. This document was written for technical
    professionals who are evaluating VM/ESA and VSE/ESA performance. A good
    knowledge of VM/ESA and VSE/ESA is assumed.

2. **Redbook - Understanding Performance Tuning Theory for IBM OS/2 LAN** 1994-11-06
    Server
    This document provides the performance information for LAN Server Version
    3.0 and 4.0 products. This covers the detail description of LAN Server's
    mechanism including SMB protocols and buffering logics.

3. <u>**Redbook - IBM PC Server Disk Subsystem Configuration and Sizing**</u>   1995-11-07
This document provides detailed information on how to select the right server
system for your business needs and how to optimal configure the disk subsystem
in IBM PC Server products. The document provides example configurations as
well as reference material on the IBM PC Server disk subsystem.

4. <u>**Redbook - OS/390 Release 2 Implementation MVS, SMP/E, SDSF, and**</u>   1997-01-22
<u>**RMF**</u>
This redbook describes the new functions in OS/390 Release 2. It was written
for systems programmers who need to understand these functions and the
considerations for implementing them. Several practical examples are presented
to demonstrate the use of these new functions. Some knowledge of OS/390 and
MVS/ESA is assumed. The OS/390 Release 2 ServerPac installation process is
described by showing the process steps used in the installation of the ITSO
OS/390 Release 2 system. An enhancement for up to 10 additional data sets may
be concatenated to SYS1.PARMLIB at IPL. An installation may, if desired,
dynamically change the logical parmlib by switching to another set of parmlib
data sets through use of a new operator command. New enhancements have
been made in LNKLST and LPALST. In addition, a parmlib symbolic pre-
processor tool, which is an ISPF-based interactive dialog, is available to show
you what your system symbolics and parmlib members would be, given a
hypothetical hardware and software configuration. A new enhancement to
Global Resource Serialization uses a star topology as an alternative to the
current ring implementation. A check list is provided that makes an inventory of
the analysis and activities to be followed while planning a migration to a GRS
star configuration. An appendix describes a tool that monitors supervisor calls
56 and 48 (ENQ/RESERVE/DEQ) and collects data about the resources
serialized and the requesters. Also, an appendix describes a sample exit
ISGGREX0 based on the ISGGREXS

5. <u>**Redbook - IBM 2210 Nways Multiprotocol Router Description and**</u>   1997-06-20
<u>**Configuration Scenarios - Volume 1**</u>
This redbook describes the IBM 2210 Nways Multiprotocol Router and its
operating software, the Nways Multiprotocol Routing Services (MRS). It
provides a technical overview of functions implemented by the IBM 2210 such
as bridging, multiprotocol routing, data link switching, frame-relay boundary
access node and LAN Network Manager support. One chapter is dedicated to
the important special features implemented by the IBM 2210, such as WAN
Restoral, WAN Reroute, Dial-on-Demand, Bandwidth Reservation, and
EasyStart. The redbook also contains practical scenario descriptions and
implementation, showing details of the topology and the commands entered in
the console of the IBM 2210. This redbook will help you build a routing
environment using the IBM 2210 Nways Multiprotocol Router. With detailed
step-by-step implementation of various scenarios, this redbook can be used as a
sample when configuring not only the basic routing but also all the additional
special features available in this product. Some knowledge of networking
architectures and protocols is assumed.

6. <u>**Redbook - OS/390 MVS Parallel Sysplex Capacity Planning**</u>   1998-01-08
Capacity planning in the Parallel Sysplex environment must address specific
transition and growth considerations. Opportunities exist for balancing your
workload across systems in a Parallel Sysplex. Resources such as systems,
Coupling Facilities and links belonging to a Parallel Sysplex have a finite
capacity which, when exhausted, may slow down or disrupt service to users.
You can avoid these conditions and significantly increase the productivity of

users by careful capacity planning. This redbook provides an overview of capacity planning. It defines the process and the vocabulary, and provides detailed explanations about how to do capacity planning in the Parallel Sysplex environment. Related IBM tools that help in this process are also discussed. Capacity planning considerations for OS/390 V2R4 and related subsystems such as the DB2, IMS/DB and CICS/VSAM RLS data sharing environments are included. For the DB2 environment, a methodology is outlined for estimating the CF locking rates and for obtaining locking information based on DB2PM reports from your current system. A detailed description of RMF reporting for a Parallel Sysplex is provided. Case studies are included for Quick-Sizer modelling of DB2 and IMS/DB data sharing. These case studies are constructed so that you can try them while reading the redbook. Additionally, information and case studies are included for UNIX capacity planning in a S/390 environment. A discussion and case study are included for a CF processing model, which enables you to e

7. **Redbook - AS/400 Communication Performance Investigation -**   1998-01-13
      V3R6/V3R7
      Improving communication performance is not a trivial task. The purpose of this redbook is to discuss how to manage communications performance and ways to locate the problem areas in communication performance. This redbook collects a large amount of the performance information from several sources and presents it in an ordered manner. The databases created by the Performance Tools/400 were used to give the key performance indicators. This redbook is intended for technical professionals including network designers who want to tune the IBM AS/400 system to improve communications performance. An intermediate knowledge of the Performance Tools/400 (5716-PT1) and Query/400 (5716-QU1) is assumed.

8. **Redbook - Consolidating UNIX Systems onto OS/390**   1998-06-04
      This redbook describes the IBM S/390 Enterprise Server as a target for the consolidation of applications currently running on multiple distributed UNIX servers. The objectives of the book are: to show how server consolidation is economically justified in many situations, to position S/390 within the spectrum of consolidation offerings, to show that S/390 should be the platform of choice for selected environments and, to provide some practical guidance in the planning and execution of a project to consolidate multiple UNIX servers onto OS/390.

9. **Redbook - IBM Versatile Storage Server**   1998-08-21
      This redbook gives a broad understanding of the new architecture of the Versatile Storage Server (VSS). This book provides an introduction, and describes in detail the architecture, technology, data flow, configuration, migration and recovery aspects for the VSS.

10. **Redbook - RS/6000 Scientific and Technical Computing: POWER3**   1998-09-18
      Introduction and Tuning Guide
      This redbook provides information to help you understand and exploit the new generation of computer systems based on the RS/6000 POWER3 architecture. Specifically, this publication will address the following issues: POWER3 features and capabilities CPU and **memory optimization** techniques, especially for Fortran programming AIX XL Fortran Version 5.1.1 compiler capabilities and which options to use Parallel processing techniques and performance Available libraries and programming interfaces Performance examples on commonly used kernels and on several full applications The anticipated audience for this redbook is as follows: Application developers End users who

may be involved in making modifications to applications Technical managers responsible for equipment purchase decisions Managers responsible for project planning Researchers involved in numerical algorithm development End users with an interest in understanding the performance of their applications While this publication is decidedly technical in nature, the fundamental concepts are presented from a user point of view and numerous examples are provided to reinforce these concepts. Furthermore, this publication is organized such that the information becomes more detailed as one progresses through the chapters. This organization will allow readers to stop, once they have achieved the level of understanding they desire, without having to search through the publication. To some extent, this book should be regarded as a series of subtopics that can be read alone

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1.   **Redbook - IBM TotalStorage DS6000 Series: Performance Monitoring and**   2005-12-14
         Tuning
         This IBM Redbook provides guidance about how to configure, monitor, and
         manage your IBM TotalStorage DS6000 to achieve optimum performance. We
         describe the DS6000 performance features and characteristics and how they can
         be exploited with the different server platforms that can attach to it. Then in
         consecutive chapters we detail the specific performance recommendations and
         discussions that apply for each server environment, as well as for database and
         Copy Services environments. We also outline the various tools available for
         monitoring and measuring I/O performance for the different server
         environments, as well as how to monitor performance of the entire DS6000
         subsystem.

2.   **Redbook - The POWER4 Processor Introduction and Tuning Guide**   2001-11-29
         This redbook is designed to familiarize you with the IBM eServer pSeries
         POWER4 microarchitecture and to provide you with the information necessary
         to exploit the new high-end servers based on this architecture. The eight to 32-
         way symmetric multiprocessing (SMP) pSeries 690 Model 681 will be the first
         POWER4 system to be available. Thus, most analysis presented in this
         publication refers to this system. Specifically, this publication will address the
         following issues: POWER4 features and capabilities Processor and **memory
         optimization** techniques, especially for Fortran programming AIX XL Fortran
         Version 7.1.1 compiler capabilities and which options to use Parallel processing
         techniques and performance Available libraries and programming interfaces
         Performance examples of commonly used kernels While this publication is
         decidedly technical in nature, the fundamental concepts are presented from a

user point of view and numerous examples are provided to reinforce these concepts.

3. <u>Redbook - RS/6000 Scientific and Technical Computing: POWER3</u>   1998-09-18 ·
<u>Introduction and Tuning Guide</u>
This redbook provides information to help you understand and exploit the new generation of computer systems based on the RS/6000 POWER3 architecture. Specifically, this publication will address the following issues: POWER3 features and capabilities CPU and **memory optimization** techniques, especially for Fortran programming AIX XL Fortran Version 5.1.1 compiler capabilities and which options to use Parallel processing techniques and performance Available libraries and programming interfaces Performance examples on commonly used kernels and on several full applications The anticipated audience for this redbook is as follows: Application developers End users who may be involved in making modifications to applications Technical managers responsible for equipment purchase decisions Managers responsible for project planning Researchers involved in numerical algorithm development End users with an interest in understanding the performance of their applications While this publication is decidedly technical in nature, the fundamental concepts are presented from a user point of view and numerous examples are provided to reinforce these concepts. Furthermore, this publication is organized such that the information becomes more detailed as one progresses through the chapters. This organization will allow readers to stop, once they have achieved the level of understanding they desire, without having to search through the publication. To some extent, this book should be regarded as a series of subtopics that can be read alone

4. <u>Redbook - IBM TotalStorage DS8000 Series: Performance Monitoring and</u>   2005-12-06
<u>Tuning</u>
This IBM Redbook provides guidance about how to configure, monitor, and manage your IBM TotalStorage DS8000 to achieve optimum performance. We describe the DS8000 performance features and characteristics and how they can be exploited with the different server platforms that can attach to it. Then in consecutive chapters we detail specific performance recommendations and discussions that apply for each server environment, as well as for database and DS8000 Copy Services environments. We also outline the various tools available for monitoring and measuring I/O performance for different server environments, as well as describe how to monitor the performance of the entire DS8000 subsystem.

5. <u>Redbook - Virtualization on the IBM System x3950 Server</u>   2006-06-21
Virtualization is becoming more and more a key technology enabler to streamline and better operate data centers. In it's simplest form, virtualization refers to the capability of being able to run multiple OS instances, such as Linux® and Windows, on a physical server. Usually the concept of virtualization is associated with high-end servers, such as the IBM System x3950, that are able to support and consolidate multiple heterogeneous software environments. The System x3950 is a highly scalable x86 platform capable of supporting up to 32 processors and 512 GB of **memory** and is aimed at customers that want to consolidate data centers. Between the server hardware and the operating systems that will run the applications is a virtualization layer of software that manages the entire system. The two main products in this field are VMware ESX Server and Microsoft Virtual Server. This IBM Redbook discusses the technology behind virtualization, x3950 technology, and the two virtualization software products. We also discuss how to manage the solution properly as though they all were a pool of resources with Virtual Machine

Manager, a unique and consistent management interface.

6. **Redbook - Tuning IBM eServer xSeries Servers for Performance**   2003-05-28
This IBM Redbook describes what you can do to improve and maximize the
performance of your business server applications running on xSeries hardware
and either Windows 2000, Linux or NetWare operating systems. It describes
what can be done to improve the performance of the xSeries hardware, the
operating system and specific server applications such as Lotus Notes, SAP R/3,
and DB2. The book is divided into five parts. Part 1 explains the technology
implemented in the major subsystems in xSeries servers and

7. **Redbook - Tuning IBM System x Servers for Performance**   2007-03-12
This IBM Redbook describes what you can do to improve and maximize the
performance of your business server applications running on IBM System x
hardware and either Windows, Linux, or ESX Server operating systems. It
describes how to improve the performance of the System x hardware, the
operating system, and specific server applications. The book is divided into five
parts. Part 1 explains the technology implemented in the major subsystems in
System x servers and shows what settings can be selected or adjusted to obtain
the best performance. Part 2 describes the performance aspects of the operating
systems: Microsoft Windows Server 2003, Red Hat Enterprise Linux, SUSE
Linux Enterprise Server, and VMware ESX Server. Part 3 introduces the
performance monitoring tools that are available to users of System x servers.
Part 4 shows you how to analyze your system to find performance bottlenecks
and what to do to eliminate them. Part 5 examines specific performance
characteristics of specific server applications. This book is targeted at people
who configure Intel and AMD processor-based servers running Windows, Linux
or ESX Server and seek to maximize performance. Some knowledge of servers
is required. Skills in performance tuning are not assumed. Update March 2007:
Added content on the new Intel Xeon 5300 series "Clovertown" processors.

8. **Redbook - Tuning IBM eServer xSeries Servers for Performance**   2005-01-11
This IBM Redbook describes what you can do to improve and maximize the
performance of your business server applications running on xSeries hardware
and either Windows, Linux, ESX Server, or NetWare operating systems. It
describes how to improve the performance of the xSeries hardware, the
operating system, and specific server applications. The book is divided into five
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